

## AMENDMENTS

Please amend claims 20, 50, 51, 71-75 and 87-88 as follows:

B1 20. (Amended) A method of subjecting a DNA molecule to a DNA synthesis reaction, comprising the steps of:

- a) obtaining a DNA molecule having a first linker sequence positioned at one end of the DNA molecule and a second linker sequence, different from said first linker sequence, positioned at the other end of the DNA molecule; and
- b) subjecting said DNA to a DNA synthesis reaction with a primer set comprising:
  - i) a first primer, wherein the 5' sequence of said primer is complementary to said first linker sequence and the 3' sequence of said primer comprises a specificity region; and
  - ii) a second primer, wherein the 5' sequence of said primer is complementary to said second linker sequence and the 3' sequence of said primer comprises a specificity region.

B2 50. (Amended) The method of claim 45, wherein said analysis of products is by a filtration and extraction device.

51. (Amended) The method of claim 45, wherein said analysis of products is by the use of interlaced lasers and multiple fluorescent measurements.

B3 71. (Amended) The method of claim 20, performed on more than one sample of DNA, wherein the DNA samples are derived from a cell or tissue type obtained from different species.

72. (Amended) The method of claim 20, performed on more than one sample of DNA, wherein the DNA samples are derived from a cell or tissue type obtained from different organisms.

73. (Amended) The method of claim 20, performed on more than one sample of DNA, wherein the DNA samples are derived from a cell or tissue at different stages of development.

83 74. (Amended) The method of claim 20, performed on more than one sample of DNA, wherein the DNA samples are derived from a normal cell or tissue and derived from a cell or tissue that is diseased.

75. (Amended) The method of claim 20, performed on more than one sample of DNA, wherein the DNA samples are derived from a cell or tissue cultured in vitro under different conditions.

84 87. (Amended) A primer molecule having (a) a predetermined 5' sequence for annealing to a linker sequence and (b) a 3' terminal specificity region of from 3 to 8 nucleotides in length, the specificity region defined as one of all possible sequence combinations of A, T, G and C.

88. (Amended) A population of primer molecules, the primer molecules having (a) a predetermined 5' sequence for annealing to a linker sequence and (b) a 3' terminal specificity region of from 3 to 8 nucleotides in length, the population of primer molecules having specificity regions collectively reflecting all possible sequence combinations of A, T, G and C.

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### **REMARKS AND RESPONSE TO OFFICIAL ACTION**

#### **I. Claims in the Case**

Claims 20, 50, 51, 71-75 and 87-88 have been amended. Claims 3, 4, 20, 21, 23-29, 36-76 and 85-89 are pending.

#### **II. Section 112, Second Paragraph Rejections**

The Action first raises various concerns under section 112, second paragraph.